

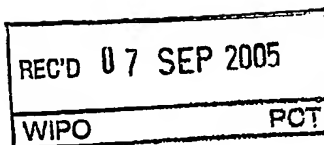
PATENT COOPERATION TREATY


PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)



Applicant's or agent's file reference A4-327PCT		FOR FURTHER ACTION		See Form PCT/PEA/416
International application No. PCT/US2005/000695		International filing date (day/month/year) 10.01.2005	Priority date (day/month/year) 09.01.2004	
International Patent Classification (IPC) or national classification and IPC H01R13/24				
Applicant MOLEX INCORPORATED				
<p>1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of 5 sheets, including this cover sheet.</p> <p>3. This report is also accompanied by ANNEXES, comprising:</p> <p>a. <input checked="" type="checkbox"/> sent to the applicant and to the International Bureau) a total of 3 sheets, as follows:</p> <p><input checked="" type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).</p> <p><input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.</p> <p>b. <input type="checkbox"/> (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).</p>				
<p>4. This report contains indications relating to the following items:</p> <p><input checked="" type="checkbox"/> Box No. I Basis of the opinion</p> <p><input type="checkbox"/> Box No. II Priority</p> <p><input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p><input type="checkbox"/> Box No. IV Lack of unity of invention</p> <p><input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p><input type="checkbox"/> Box No. VI Certain documents cited</p> <p><input type="checkbox"/> Box No. VII Certain defects in the international application</p> <p><input type="checkbox"/> Box No. VIII Certain observations on the international application</p>				
Date of submission of the demand 04.08.2005		Date of completion of this report 06.09.2005		
Name and mailing address of the International preliminary examining authority:  European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465		Authorized Officer Serrano Funcia, J Telephone No. +49 89 2399-5846		



**INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY**

International application No.
PCT/US2005/000695

Box No. 1 Basis of the report

1. With regard to the **language**, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ This report is based on translations from the original language into the following language, which is the language of a translation furnished for the purposes of:
- ☐ international search (under Rules 12.3 and 23.1(b))
 - ☐ publication of the international application (under Rule 12.4)
 - ☐ international preliminary examination (under Rules 55.2 and/or 55.3)
2. With regard to the **elements*** of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):*

Description, Pages

1-3, 5, 6	as originally filed
4	received on 05.08.2005 with letter of 05.08.2005

Claims, Numbers

1-7	received on 05.08.2005 with letter of 05.08.2005
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Drawings, Sheets

1/5-5/5	as originally filed
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- ☐ a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing

3. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages
- ☐ the claims, Nos.
- ☐ the drawings, sheets/figs
- ☐ the sequence listing (*specify*):
- ☐ any table(s) related to sequence listing (*specify*):

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- ☐ the description, pages
- ☐ the claims, Nos.
- ☐ the drawings, sheets/figs
- ☐ the sequence listing (*specify*):
- ☐ any table(s) related to sequence listing (*specify*):

* If item 4 applies, some or all of these sheets may be marked "superseded."

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes: Claims	1-7
	No: Claims	
Inventive step (IS)	Yes: Claims	1-7
	No: Claims	
Industrial applicability (IA)	Yes: Claims	1-7
	No: Claims	

2. Citations and explanations (Rule 70.7):

see separate sheet

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Re Item V:

1 With respect to independent claim 1

Document D1, which is considered to be the closest prior art discloses:

"A press-contacting conductive terminal device, comprising:
a non-conductive enclosure (10) defining a cylindrically shaped through hole (11), a front end and a rear end of the through hole having a first opening (111) and a second opening (112), respectively;
at least one contact member (30) having a front end portion (31) and a rear end portion (32), an outside diameter of the rear end portion being slightly larger than an outside diameter of the front portion, the rear end portion being slideably received in the through hole;
at least one resilient member (40), being received in the through hole (11), one end thereof abutting against the rear end portion (32) of the contact member (30) and causing the front end portion (31) of the contact member to extend through the first opening (111) and beyond a front end of the non-conductive enclosure (10), a stop portion (113) placed on the first opening (111) of the non conductive enclosure to prevent the rear end (32) of the contact member from moving out of the through hole (11);
at least one base (20), including two side wings (21) and a contact portion (22), the side wings extending together from the contact portion (22)"

from which the subject matter of independent claim 1 differs in that

"the side wings have a planar surface a portion of which is tangent to an inner surface of the cylindrically shaped through hole (11), the contact portion (22) completely covering the second opening (112) on the rear end of the through hole (11) when the base is inserted into the rear end of the non conductive enclosure; the rear end (32) of the contact member (30) located between the two side wings (21) of the base with an outer wall of the rear end (32) of the contact member (30) sliding in continuous electrical contact with an inner wall of the two side wings (21)"

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These features solve the problem of providing a better electrical connection between the front end portion and the rear end portion of the press-contacting conductive terminal device and as well assuring a reliable mechanical connection of said conductive device with the insulation housing while preventing the need of a large amount of material to manufacture the contact.

There is no hint in the prior art on how to solve this problem.
The subject matter of independent claim 1 is new and inventive. (Article 33(2) and (3) PCT).

2. With respect to the dependent claims.

Claims 2-7 are dependent claims and refer to further developments on the subject matter of claim 1, and therefore comply with the requirements of Articles 33(2) and (3) PCT.

3. The subject matter of the present application refers to press-contacting conductive terminal device which has clearly an industrial applicability.